

Coagulation Factor III/Tissue Factor Protein, Canine, Recombinant (His)

General Information

Synonyms:	Thromboplastin;CD142;TF;FLJ17960;TFA;F3;Coagulation Factor III;Tissue factor
Protein Construction:	Thr35-Glu248
Species:	Canine
Expression Host:	HEK293 Cells
Accession:	Q4W6L5
Molecular Weight:	25.41 kDa (predicted). Due to glycosylation, the protein migrates to 35-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Tissue factor (also named Coagulation Factor III) is a cell surface glycoprotein responsible for initiating the extrinsic pathway of coagulation. Tissue factor is the primary cellular initiator of blood coagulation via interaction with coagulation factor VII. Aberrant expression of tissue factor is responsible for thrombosis during septic shock, atherosclerosis and cancer.

Reference

Rao LV. Tissue factor as a tumor procoagulant. *Cancer Metastasis Rev.* 1992 Nov;11(3-4):249-66. doi: 10.1007/BF0130718 PMID: 1423817.

Carmeliet P, Collen D. Tissue factor. *Int J Biochem Cell Biol.* 1998 Jun;30(6):661-7. doi: 10.1016/s1357-2725(97)00121-0. PMID: 9695023.

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